Amana®
Heating ▪ Air Conditioning
A higher standard of comfort

GUIC/D Gas Fired Warm Air Furnace

Specification Sheet

Affix this manual, Installation Instructions and Users Information Manual adjacent to the furnace.

GUI* Specifications												
Furnace Model	BTUH		Temp. Rise Range, °F	Number of Burners	Minimum Circuit Ampacity[1]	Maximum Overcurrent Protection	Blower			AC Tons @ .5 ESP	Pressure Switch Setting (Inches W.C.)	Shipping Weight (lbs)
	Input	Output					D" x W"	HP	Speeds			
GUI(C/D)045_30	46,000	36,800	35-65	2	8.7	15	9X8	1/3	4	1.5-3.0	-0.55[3]	140
GUI(C/D)070_30	69,000	55,200	35-65	3	9.3	15	9X8	1/3	4	2.0-3.0	-0.55[3]	151
GUI(C/D)070_40	69,000	55,200	35-65	3	9.9	15	10X8	1/2	4	2.0-4.0	-0.55[3]	152
GUI(C/D)090_30	92,000	73,600	40-70	4	7.8	15	10X8	1/2	4	1.5-3.5	-0.55[3]	169
GUI(C/D)090_50	92,000	73,600	40-70	4	14.5	15	10X8	3/4	4	3.0-5.0	-0.55[3]	178
GUIC115_40	115,000	92,000	40-70	5	12.7	15	10X7	1/2	4	2.5-4.0	-0.55[3]	190
GUI(C/D)115_50	115,000	92,000	40-70	5	13.3	15	10X9	3/4	4	3.0-5.0	-0.55[3]	194
GUIC140_50	140,000	110,400	45-75	6	14.2	15	10X9	3/4	4	3.5-5.0	-0.55[3]	198

[1] Minimum Circuit Ampacity = (Circulating Blower Amps x 1.25) + I.D. Blower Amps
[2] Maximum Overcurrent Protection refers to maximum recommended fuse or circuit breaker size.
[3] As shipped for installations below 5500 feet.
Flame sensor output is 1 to 4 microamps at 115 volts
FILTERS ARE NOT INCLUDED WITH FURNACE AND MUST BE SUPPLIED BY THE INSTALLER.

Filter Size

Upflow/Horizontal Flow Minimum Recommended Filter Sizes		
(QTY) Nominal Size - Inches, (Sq. In. Surface Area)		
Minimum Recommended Filter Sizes, Inches		
Size_Air Flow	Fiberglass Throwaway	Permanent
045_30	(1) 20x25 (500)	(1) 15x20 (300)
070_30	(1) 20x25 (500)	(1) 15x20 (300)
070_40	(2) 18X25 (450)	(1) 18x25 (450)
090_30	(1) 24x24 (576)	(1) 16x25 (400)
090_50	(2) 18x25 (450)	(1) 20x25 (500)
115_40	(2) 14x25 (350)	(2) 18x25 (450)
115_50	(2) 18x25 (450)	(1) 20x25 (500)
140_50	(2) 18x25 (450)	(1) 20x25 (500)

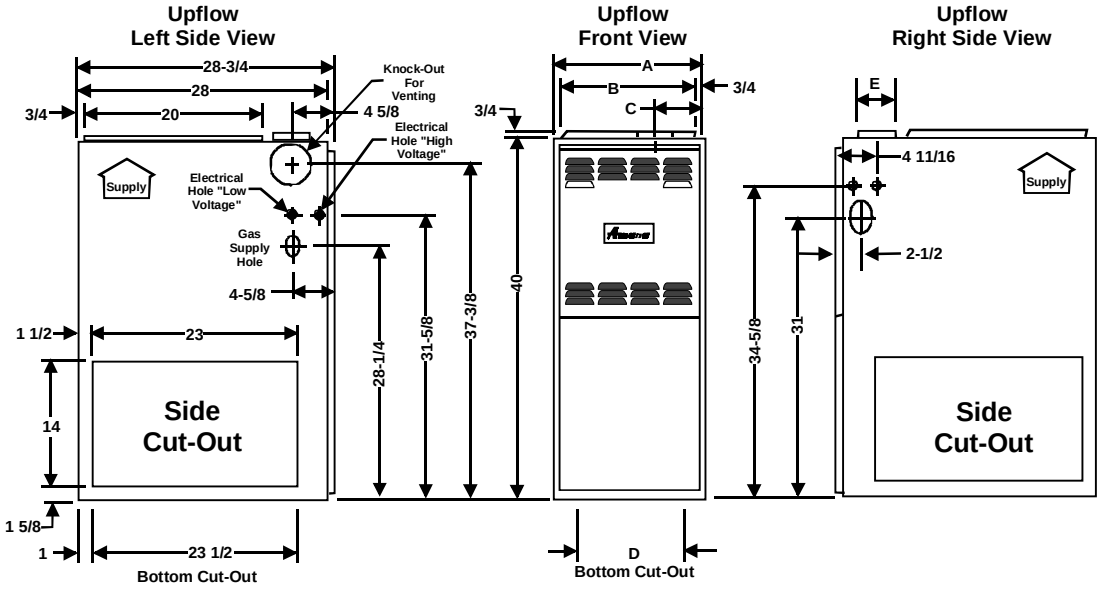
⚠ WARNING

To avoid death, personal injury or property damage due to fire, do not exceed maximum recommended fuse or circuit breaker size.

Bottom Return Air Filters		
Size	Filter Size, Inches	Type
045, 070_30	14 X 25 X 1	Permanent
070_40	16 X 25 X 1	Permanent
90	16 X 25 X 1	Permanent
115, 140	20 X 25 X 1	Permanent

Due to continuous engineering design and development, the above information is subject to change without notice.

Dimensions



	A	B	C	D	E	Minimum Vent Diameter
GUI_045	16-1/2	15	5-1/4	12	4	4
GUI_070	16-1/2	15	5-1/4	12	4	4
GUI_090	20-1/2	19	7-1/4	16	4	4
GUI_115	24-1/2	23	9-1/4	18	4	5
GUI_140	24-1/2	23	9-1/4	18	4	5

All dimensions in inches.

Accessibility Clearances (Minimum)

WARNING

To avoid death, personal injury or property damage due to fire, clearances to combustible surfaces as listed below must be observed.

NOTE: 36 inches in front of the unit is required for servicing or cleaning.

NOTE: In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.

Clearances To Combustible Surfaces GUI_Model Furnaces (Inches)			
	Upflow	Horizontal Left	Horizontal Right
Front	6[1]	Alcove	Alcove
Right	0	6	12
Left	0	12	6
Rear	0	0	0
Top	1	6	6
Flue	6[2]	6[2]	6[2]
Floor	C	C	C

[1] = 3 inch when Type B-1 vent is used.

[2] = 1 inch when Type B-1 vent is used.

C = If placed on combustible floor, floor MUST be wood ONLY.

High Altitude Installation

When installing this furnace refer to the High Altitude Chart for proper high altitude kit, if required, and gas manifold pressure.

NOTE: In Canada, gas furnaces are certified to 4,500 feet only.

High Altitude Chart					
Model	Gas	Altitude	Kit	Orifice	Manifold Pressure
GUIC GUID	Natural Propane	0 - 6000 0 - 6000	None LPTK09	#43 #55	3.5" W.C. 10.0" W.C.

When installing this furnace at an altitude greater than listed above, please consult your Amana distributor for the required high altitude kit(s).

Furnace Suspension

If necessary to suspend the furnace from rafters or joists,

CFM & Temperature Rise vs. External Static Pressure													
		Tons AC @ .5" ESP	External Static Pressure, Inches Water Column										
			0.1		0.2		0.3		0.4		0.5		0.6
Models	Motor Speed		CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM
GUI_045_30 (Low)	High	3	1460	----	1400	----	1345	----	1280	----	1200	----	1110
	Med-High	2.5	1200	----	1150	----	1100	----	1050	----	980	35	900
	Med-Lo	2	935	36	910	37	885	39	845	40	790	43	710
	Low	1.5	700	49	685	50	665	51	635	54	575	59	425
GUI_070_30 (Med-Lo)	High	3	1555	----	1505	----	1440	35	1365	37	1290	39	1180
	Med-High	3	1325	38	1305	39	1250	41	1200	42	1140	44	1060
	Med-Lo	2.5	1090	47	1080	47	1055	48	1020	50	970	52	905
	Low	2	760	----	750	----	750	----	735	----	700	----	645
GUI_070_40 (Med-Lo)	High	4.0	1799	---	1742	---	1694	---	1622	---	1529	---	1444
	Med-High	3.5	1720	---	1590	---	1542	---	1483	---	1404	36	1330
	Med-Lo	2.5	1113	46	1096	47	1078	47	1067	48	1018	50	967
	Low	2.0	967	53	954	54	941	54	913	56	885	58	826
GUI_090_30 (High)	High	3.5	1630	42	1560	44	1550	44	1465	47	1380	49	1275
	Med-High	3	1360	50	1325	51	1290	53	1215	56	1155	59	1070
	Med-Lo	2 0	920	----	920	----	900	----	890	----	850	----	800
	Low	1.5	770	----	750	----	740	----	730	----	690	----	660
GUI_090_50 (Med-Lo)	High	5	2250	----	2185	----	2120	----	2030	----	1975	----	1885
	Med-High	4	1775	----	1750	----	1735	----	1690	40	1650	41	1600
	Med-Lo	3.5	1320	52	1315	52	1315	52	1315	52	1280	53	1240
	Low	3	1180	58	1180	58	1175	58	1170	58	1140	60	1120
GUI_115_40 (High)	High	4	1835	46	1780	48	1730	49	1660	51	1590	53	1530
	Med-High	3.5	1630	52	1595	53	1540	55	1490	57	1440	59	1375
	Med-Lo	3	1320	64	1305	65	1290	66	1260	67	1200	----	1180
	Low	2.5	1140	----	1145	----	1120	----	1100	----	1065	----	1030
GUI_115_50 (Med-Hi)	High	5	2330	36	2245	38	2165	39	2065	41	1985	43	1885
	Med-High	5	2120	40	2070	41	2020	42	1940	44	1850	46	1775
	Med-Lo	4	1875	45	1840	46	1800	47	1735	49	1685	50	1600
	Low	3	1290	----	1275	----	1250	----	1235	----	1210	----	1170
GUI_140_50 (High)	High	5	2455	----	2390	----	2290	----	2200	46	2050	49	1935
	Med-High	5	2050	49	2025	50	1965	52	1890	54	1810	56	1715
	Med-Lo	4	1715	59	1700	60	1660	61	1615	63	1555	65	1470
	Low	3.5	1450	70	1435	71	1415	72	1380	73	1340	----	1280

NOTES:

All furnaces ship as high speed for cooling. Installer must adjust blower speed as needed.

For most jobs, about 400 CFM per ton when cooling is desirable.

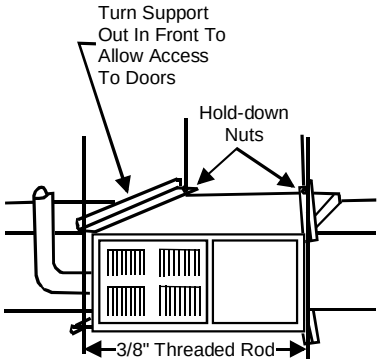
This chart is for furnaces installed at 0 - 2000 feet. At higher altitudes, a properly derated unit will have the same temperature rise at a particular CFM, while the ESP at that CFM will be lower.

The installation must be adjusted to obtain a temperature rise within the range listed on the furnace nameplate.

The shaded area ( ) indicates ranges in excess of maximum external static pressure allowable when heating. For satisfactory operation, external static pressure should not exceed 0.5" W.C. The data for 0.6" W.C. is shown for air conditioning purposes only.

The solid (—) areas indicates a temperature rise not recommended for this model.

use 3/8 inch threaded rod with angle iron as shown below.

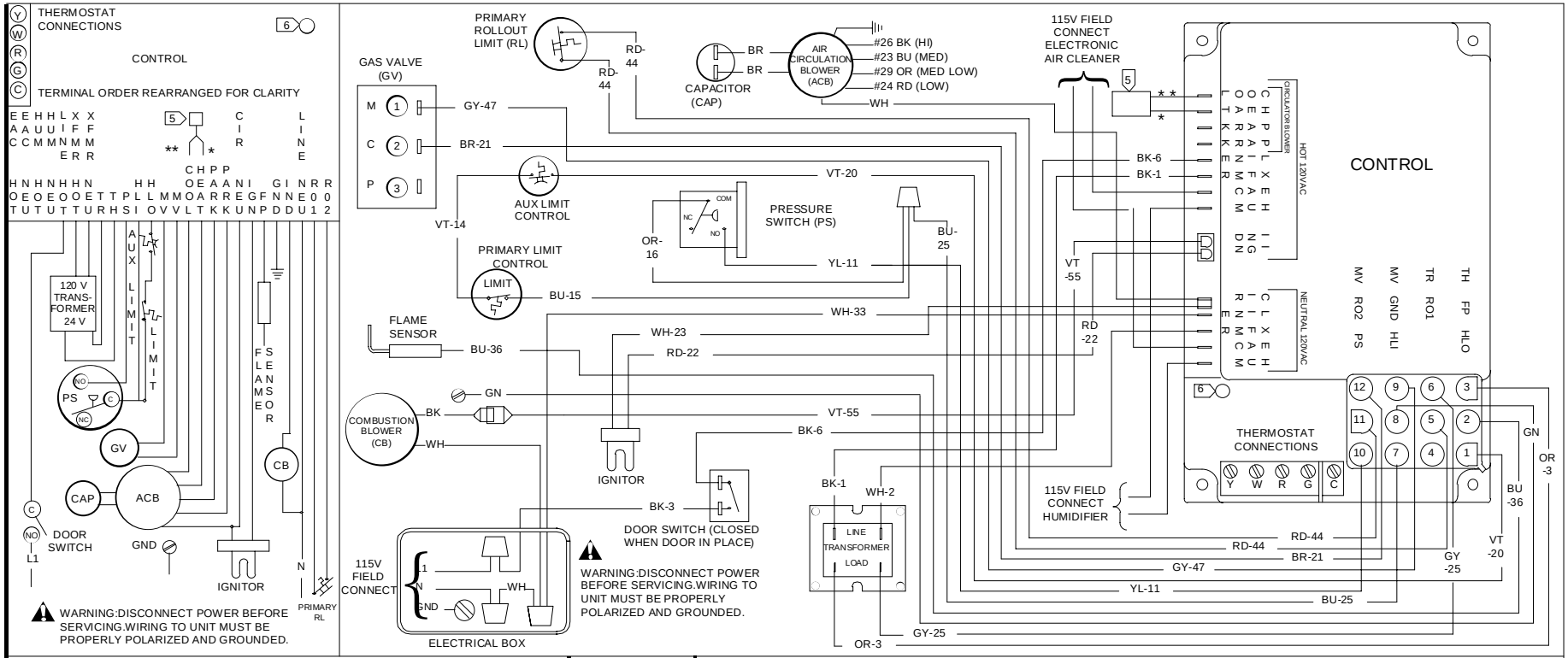


NOTES:

1. All furnaces have a redundant gas valve and blower door interlock switch.
2. All furnaces are manufactured for use on 115 VAC, 60 Hz, single phase electrical supply.
3. **IMPORTANT:** While the data is presented as a guide, it is very important to electrically connect the unit and properly size fuses and wires in accordance with the National Electrical Code and/or all existing local codes.
4. Performance figures are based on Department of Energy information and requirements under continuous operating conditions. Performance will vary with weather conditions and use.

WARNING

To prevent death, personal injury or property damage due to electrical shock, disconnect electrical power to this furnace before servicing or performing maintenance.



FACTORY WIRED BLOWER MOTOR TO CONTROL CONNECTIONS

FURNACE MODEL * MANUFACTURER'S VARIABLE LETTER	* HEATING BLOWER SPEED: SPEED	MOTOR TO "HEAT"	MOTOR SPEEDS	** COOLING BLOWER SPEED
GUI*,GCI*: 045*30, GCI*: 070*40	LOW	RD-24	4	SEE INSTALLATION INSTRUCTIONS TO DETERMINE PROPER COOLING BLOWER SPEED.
GUI*,GCI*: 070*30, 090*50 GUI*: 070*40	MED LOW	OR-29	4	
GUI*,GCI*: 115*50	MED	BU-23	4	
GUI*,GCI*: 090*30, 115*40,140*50	HI	BK-26	4	

COLOR CODE
YL YELLOW
OR ORANGE
VT VIOLET
GN GREEN
BK BLACK
BR BROWN
WH WHITE
BU BLUE
GY GRAY
RD RED

LOW VOLTAGE
LOW VOLTAGE FIELD
HI VOLTAGE
HI VOLTAGE FIELD

IMPORTANT:

READ BEFORE OPERATING OR SERVICING THIS UNIT.

1. SET HEAT ANTICIPATOR ON ROOM THERMOSTAT AT 0.7 AMPS.
2. MANUFACTURER'S SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
3. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE FURNACE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105C. USE COPPER CONDUCTORS ONLY.
4. UNUSED BLOWER MOTOR LEADS MUST BE PLACED ON "PARK" TERMINALS OF CONTROL OR TAPED.
5. IF HEATING AND COOLING BLOWER SPEEDS ARE NOT THE SAME DISCARD JUMPER BEFORE CONNECTING BLOWER LEADS.
6. DIAGNOSTIC LIGHT:STEADY=REPLACE CONTROL;1 FLASH=LOCKOUT;2 FLASHES=PS STUCK CLOSED; 3 FLASHES=PS STUCK OPEN;4 FLASHES=OPEN HIGH LIMIT SWITCH;5 FLASHES=OPEN ROLLOUT CONTROL; CONTINUOUS FLASHING=FLAME-NO CALL FOR HEAT.

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